WELCOME TO

THE CALIFORNIA DEPARTMENT OF FISH AND GAME

SUCTION DREDGE PERMITTING PROGRAM

SEIR SCOPING MEETING

WHY IS A SUBSEQUENT ENVIRONMENTAL IMPACT REPORT NEEDED?

- May 2005 - legal challenge to 1994 regulations and EIR
- December 2006 - court ordered DFG to:
  - conduct further environmental review of its suction dredge mining regulations
  - implement mitigation measures as necessary to protect fish species
- DFG determined that an SEIR is necessary to analyze impacts not addressed in the 1994 EIR
- The proposed project will consist of:
  - continued implementation of the permitting program
  - if necessary, proposed amendments to the existing regulations

SUBSEQUENT EIR

SEIR TOPICS

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Hazardous Materials
- Water Quality
- Noise
- Recreation

CEQA TIMELINE

SCOPING PERIOD ENDS
December 3, 2009

PUBLIC REVIEW OF DRAFT SEIR
Late Summer/Early Fall 2010

FINAL SUBSEQUENT EIR & REGULATORY UPDATES
Spring 2011

FILE NOTICE OF DETERMINATION AND CEQA FINDINGS
Late Spring 2011

CEQA PLANNING PROCESS

POTENTIAL EFFECTS

- Contaminant Discharges from On-shore Dredge Site Encampments
- Turbidity/Suspended Sediment Discharges
- Water Quality Effects of Mercury Discharges
- Water Quality Effects of Other Constituent Discharges
- Onsite or Offsite Erosion or Siltation
- Spills of fuels/oils

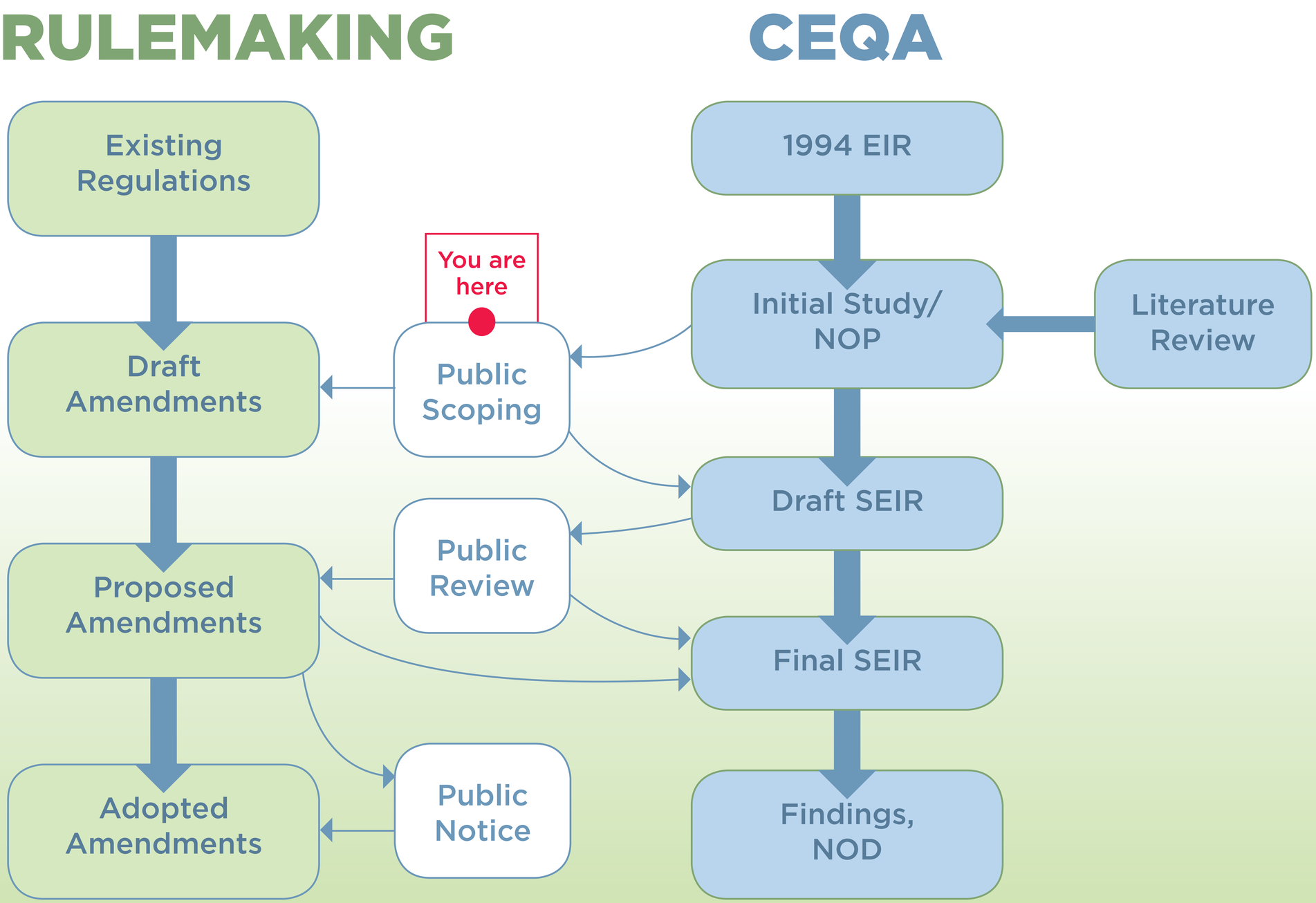
WATER QUALITY

POTENTIAL EFFECTS

- **Eggs and Larvae**
  - Spawning habitat
  - Embryo development
  - Direct entrainment
- **Habitat Alteration**
  - Pool formation/loss
  - Loss of woody debris and large boulders
  - Sedimentation
  - Suspended sediment
  - Temperature
- **Juveniles and Adults**
  - Direct entrainment
  - Heavy metal contamination
  - Behavioral effects
- **Stream Benthic Community**
  - Disturbance and disturbance frequency
  - Effects on mollusks
  - Exposure to predation

BIOLOGICAL RESOURCES

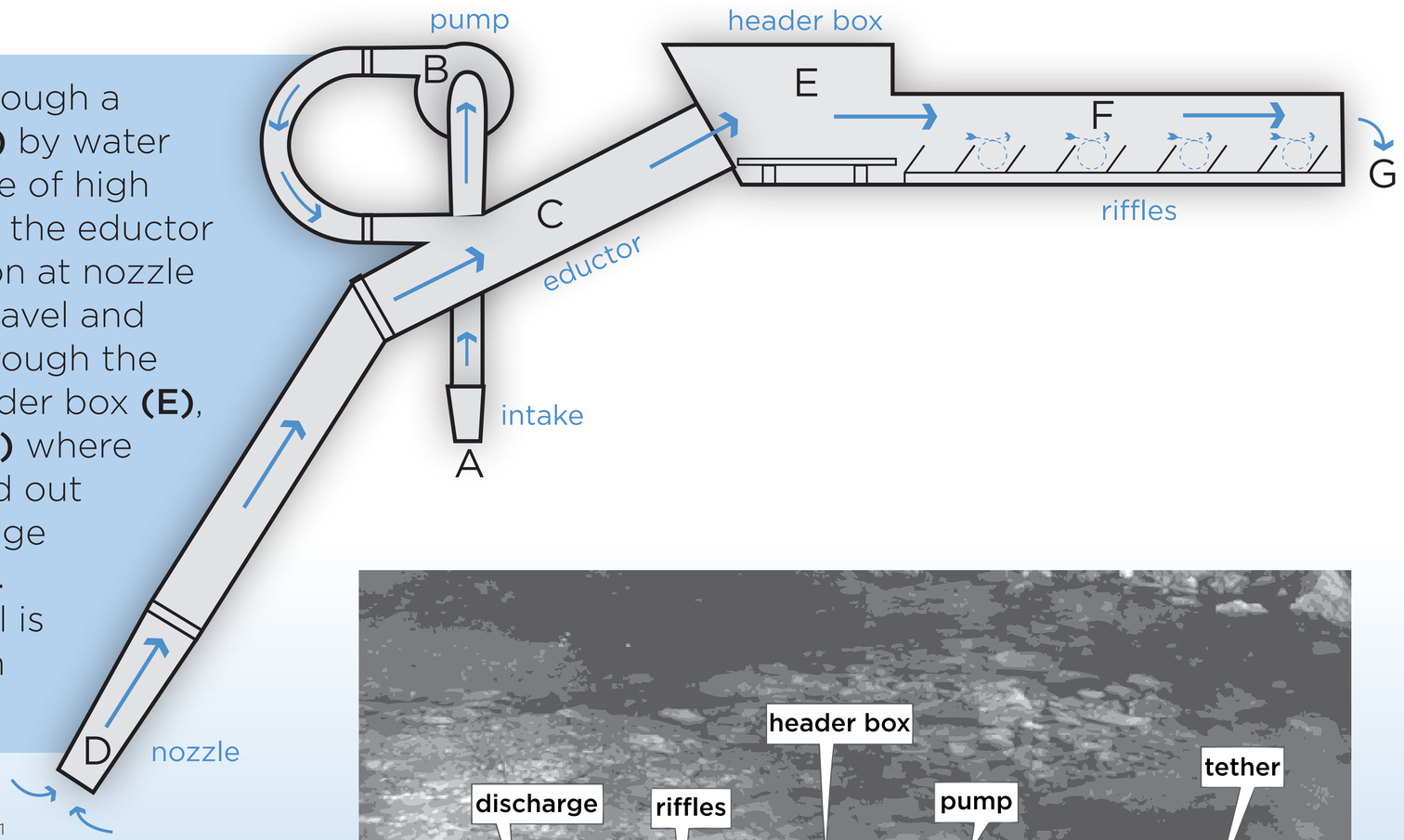
RESOURCES AGENCY
CALIFORNIA
DEPARTMENT
FISH&GAME



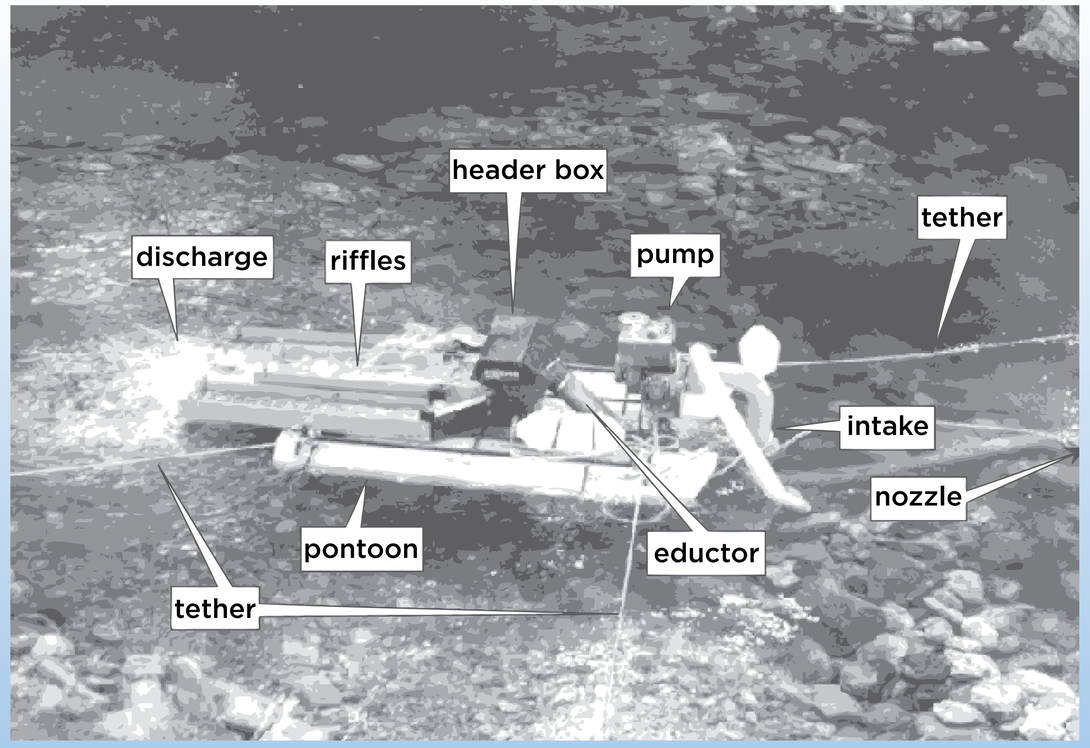
CEQA & RULEMAKING PROCESS

RESOURCES AGENCY
CALIFORNIA
DEPARTMENT
FISH&GAME

Water is sucked through a screened intake **(A)** by water pump **(B)**. The force of high pressure water into the eductor **(C)** creates a suction at nozzle **(D)**. Water, sand, gravel and gold are sucked through the nozzle into the header box **(E)**, across the riffles **(F)** where gold is trapped, and out the end of the dredge **(G)** into the stream. Streambed material is not sucked through the water pump.



Adapted from Siskiyou National Forest 2001



SUCTION DREDGE MINING

RESOURCES AGENCY
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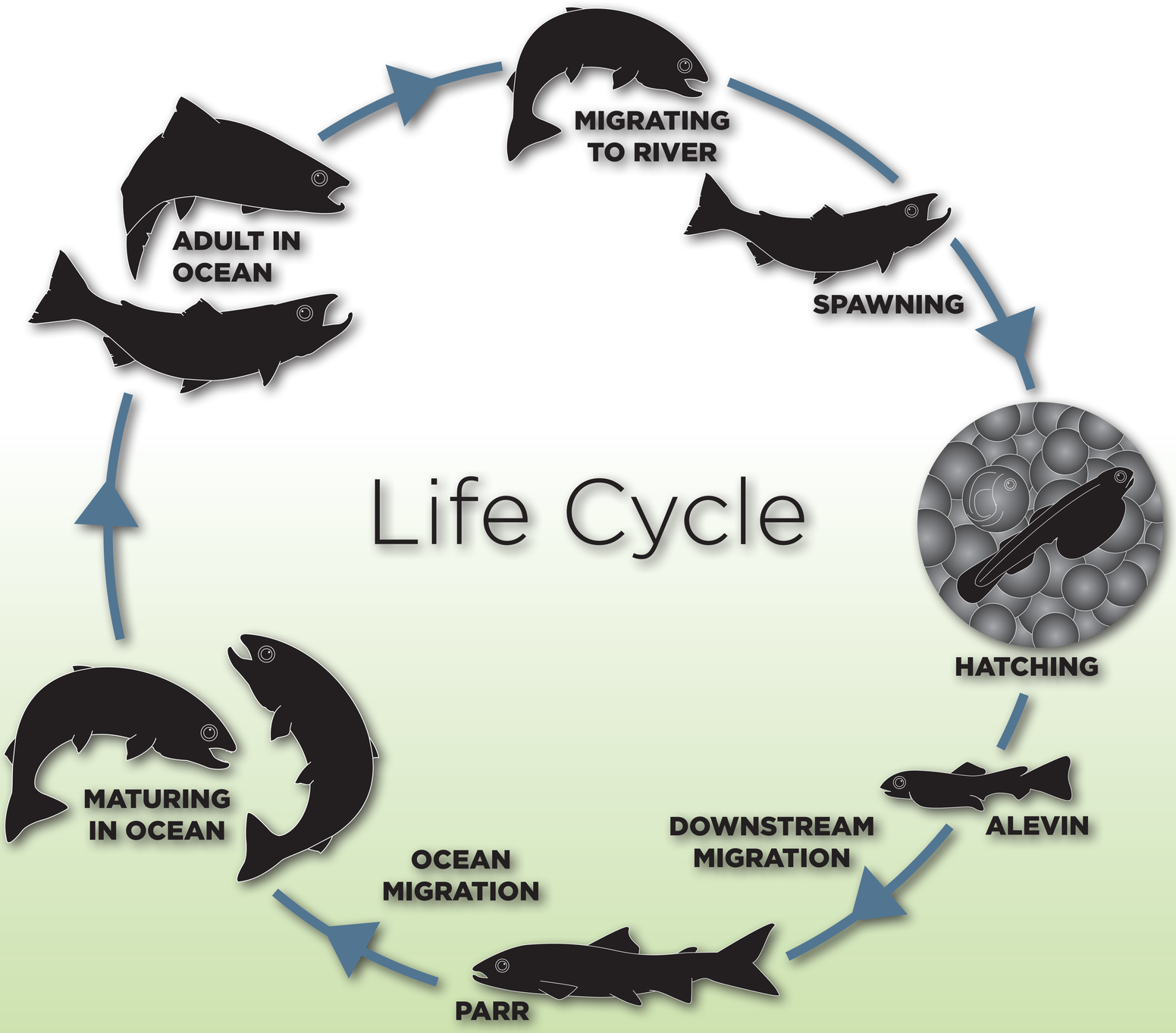

Life Cycle

SALMONID LIFE CYCLE

		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Adult Migration and Holding	Chinook spring-run												
	Chinook fall-run												
	Coho												
	Steelhead summer-run												
	Steelhead fall-run												
	Steelhead winter-run												
	Steelhead ½ pounders												
Spawning	Chinook spring-run												
	Chinook fall-run												
	Coho												
	Steelhead all runs												
Egg Incubation	Chinook												
	Coho												
	Steelhead												
Fry Emergence	Chinook												
	Coho												
	Steelhead												
Juvenile Rearing	Chinook												
	Coho Age 0												
	Coho Age 1												
	Steelhead Age 0												
	Steelhead Age 1-2												
Smolt Out-migration	Chinook												
	Coho												
	Steelhead												

Adapted from the Trinity River Restoration Program

ANADROMOUS SALMONIDS

SUCTION DREDGE PERMITTING PROGRAM SEIR COMMENTS

Please provide us with your input regarding the scope of the SEIR on the comment cards provided.

You can also take a comment card and mail it at a later date to:

California Department of Fish and Game
Attn: Mark Stopher
Suction Dredge Program Comments
601 Locust Street
Redding, CA 96001

Or Email: dfgsuctiondredge@dfg.ca.gov

Subject Line: Suction Dredge Program Comments

THANK YOU

Fish and Game Code Section 45:

"Fish" means wild fish, mollusks, crustaceans, invertebrates, or amphibians, including any part, spawn, or ova therof.

WHAT IS A FISH?